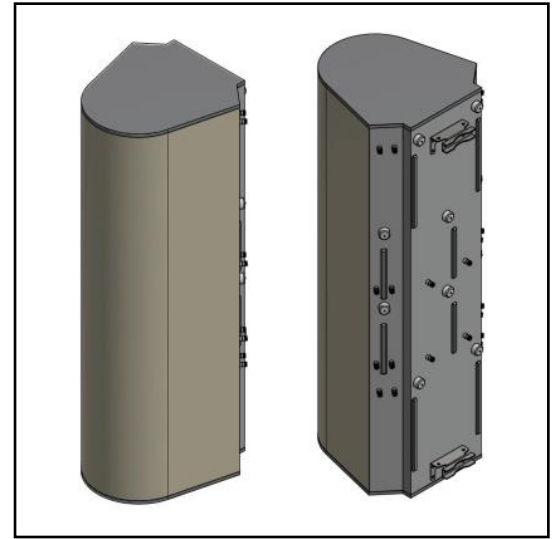


## MS-MBA-6.6-F4-H4

### Multi-beam Base-Station Antenna (MBA)

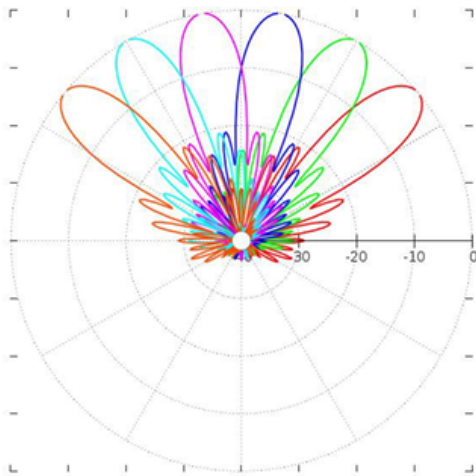
Lens Technology Enabled™ Multi-Beam Base-Station Antenna utilizes a patented spherical lens design with 6 isolated F-Band (3300MHz – 4200MHz) cross-polarized beams, 6 isolated High Band (1695MHz – 2690MHz) cross-polarized beams, each F&H Band beams have 4 ports to support 4X4 MIMO.

RET for F Band & High Band Beams 0°-15°.

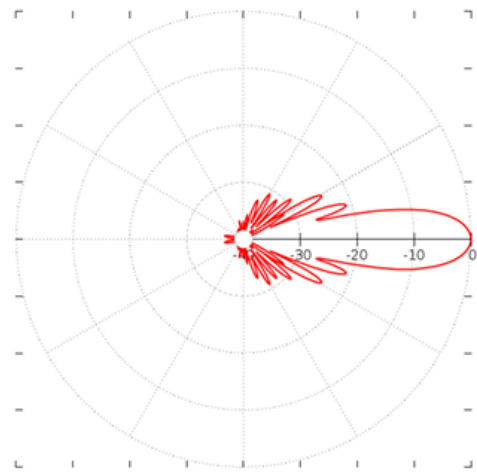


#### PATTERN RESULTS:

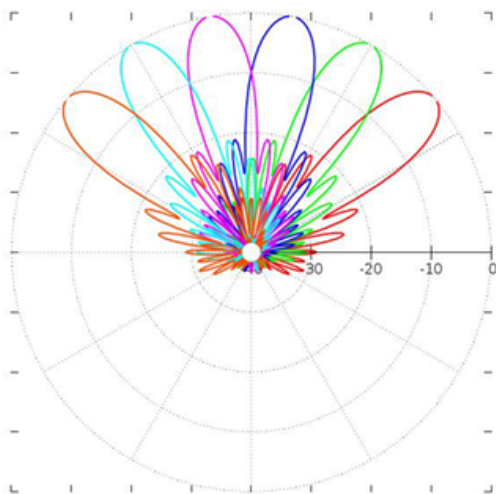
F-Band Horizontal Pattern (3.5GHz)



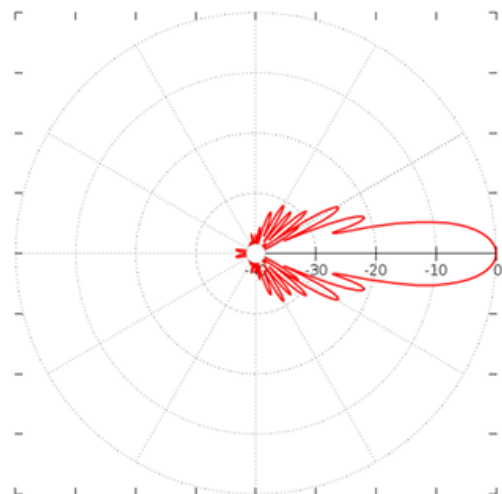
F-Band Vertical pattern (3.5GHz) at tilt 0° and 15°



High-Band Horizontal Pattern (1.92GHz)



High-band Vertical Pattern (1.92GHz) at tilt 0° and 15°



### TECHNICAL SPECIFICATIONS PER BEAM

|                                       |                           |                           |
|---------------------------------------|---------------------------|---------------------------|
| Frequency                             | 3300-4200 MHz             | 1695-2690 MHz             |
| Gain                                  | 20dBi                     | 21 dBi                    |
| VSWR                                  | <1.5:1                    | <1.5:1                    |
| Polarization                          | Dual Slant $\pm 45^\circ$ | Dual Slant $\pm 45^\circ$ |
| Horizontal Coverage                   | 120°                      | 120°                      |
| Horizontal Beamwidth (10dB level)     | 23°                       | 23°                       |
| Horizontal Beamwidth (3dB level)      | 13°                       | 13°                       |
| Vertical Beamwidth (10dB level)       | 25°                       | 25°                       |
| Vertical Beamwidth (3dB level)        | 15°                       | 15°                       |
| Beam Cross-over                       | 10dB typical              | 10dB typical              |
| Total Number of Beams                 | 6                         | 6                         |
| Number of Ports per Beam              | 4                         | 4                         |
| Number of Ports Total                 | 24                        | 24                        |
| Tilt Per Cross-Pol                    | 0° - 15°                  | 0° - 15°                  |
| First Sidelobe Level                  | <-16dB                    | <-15dB                    |
| Front to Back Ratio                   | >28dB                     | >28dB                     |
| Isolation Port to Port - Polarization | >28dB                     | >28dB                     |
| Isolation Port to Port - Beam         | >28dB                     | >28dB                     |
| Power Rating                          | 200W per port             | 200W per port             |
| Intermodulation                       | <-153dBc                  | <-153dBc                  |
| Impedance                             | 50 ohm                    | 50 ohm                    |
| Connector Quantity and Type           | 24 x 4.3-10 female        | 24 x 4.3-10 female        |

### MECHANICAL DATA

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Dimensions (H x W x D) | 184 x 93.4 x 108.4 cm<br>72.5 x 36.8 x 42.7 inch                                    |
| Antenna Weight         | 96.3kg/212.3lbs                                                                     |
| Radome Material        | Fiber Glass                                                                         |
| Mounting               | Standard pipe mount<br>Compatible pipe diameter:<br>6.1 – 11.4 cm<br>2.4 – 4.5 inch |

### ENVIRONMENTAL RATINGS

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| Humidity            | 95% RH @ +30°C                                                    |
| Temperature         | -40°C to +70°C                                                    |
| Wind load @ 150km/h | N/lbf<br>Frontal: 1322/297<br>Lateral: 1552/349<br>Rear: 1829/411 |

### CONNECTOR LAYOUT:

